BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER
BYATARAYANAPURA DIVISION

MODIFIED ESTIMATE

Name of Work: Construction of Drain from Varma Land to SWD in Amruthahalli in Ward No.07 Byataranayapura.

Estimate Cost:- 50.00Lakhs
Tender Cost:-Rs. 38,11,955.49

Name of Agency: Sri. H.N.Shivashankar

BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, BYATARAYANAPURA DIVISION

Name of Work: Construction of Drain from Varma Land to SWD in Amruthahalli in Ward No.07 Byataranayapura

MODIFIED ESTIMATE

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
		Cum							
	Strom Water Drain								
	Upto Culvert(CH: 94.50-228.60)		1	10.50	2.40	2.60	65.52		
			1	15.00	2.40	2.50	90.00		
			1	15.00	2.40	2.50	90.00		
			1	15.00	2.40	2.50	90.00		
			1	15.00	2.40	2.50	90.00		
			1	15.00	2.40	2.50	90.00		
			1	15.00	2.40	2.50	90.00		
			1	15.00	2.40	2.50	90.00		
			1	15.00	2.40	2.55	91.80		
			1	3.60	2.40	2.55	22.03		
	After Culvert								
			1	7.70	2.80	2.80	60.37		
	RCC Culvert								
			1	6.50	2.80	2.55	46.41		
	Over Burden Earth								
			1	20.00	2.00	1.20	48.00		
			1	25.00	2.00	1.50	75.00		
						Total Executed Quantity	**1039.13**		
						Schedule B Quantity	**884.60**		
						Quantity Upto 125%	**1039.13**	**252.49**	**262369.93**
2	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2								
		Cum							
	Strom Water Drain								
	Upto Culvert(CH: 94.50-228.60)		1	10.50	2.40	0.45	11.34		
			1	15.00	2.40	0.45	16.20		
			1	15.00	2.40	0.45	16.20		
			1	15.00	2.40	0.45	16.20		
			1	15.00	2.40	0.45	16.20		
			1	15.00	2.40	0.45	16.20		
			1	15.00	2.40	0.45	16.20		
			1	15.00	2.40	0.45	16.20		
			1	15.00	2.40	0.45	16.20		
			1	3.60	2.40	0.45	3.89		
	After Culvert								
			1	7.70	2.80	0.45	9.70		
	RCC Culvert								
			1	6.50	2.80	0.45	8.19		
						Total Executed Quantity	**162.72**		
						Schedule B Quantity	**131.40**		
						Quantity Upto 125%	**162.72**	**2574.74**	**418961.69**

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
		Cum							
	Strom Water Drain								
	Upto Culvert(CH: 94.50-228.60)		1	10.50	2.40	0.15	3.78		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	15.00	2.40	0.15	5.40		
			1	3.60	2.40	0.15	1.30		
	After Culvert								
			1	7.70	2.80	0.15	3.23		
	RCC Culvert								
			1	6.50	2.80	0.15	2.73		
						Total Executed Quantity	**54.24**		
						Schedule B Quantity	**43.88**		
						Quantity Upto 125%	**54.24**	**5408.12**	**293336.43**
4	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
		Sqm							
	Raft								
	Strom Water Drain								
	Upto Culvert(CH: 94.50-228.60)		1	10.50		0.30	3.15		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	15.00		0.30	4.50		
			1	3.60		0.30	1.08		
	After Culvert								
			2	7.70		0.30	4.62		
	RCC Culvert								
			2	6.50		0.30	3.90		
						Total Executed Quantity	**48.75**		
						Schedule B Quantity	**87.60**		
						Quantity Upto 125%	**109.50**	**273.48**	**29946.06**
						Quantity Above 125%	**-60.75**	**233.61**	**-14191.60**
	Rate Analysis								
	(KPWD SR 2018-19, Page No.16, Item No-4.28)								
	Basic Rate	258.00							
	Area Weightage @6%	15.48							
	Total Amount	**273.48**							
	T.P -14.58%	-39.87							
	Total Amount	**233.61**							

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
		Sqm							
	Wall								
	Strom Water Drain								
	Upto Culvert(CH: 94.50-228.60)		4	10.50		1.70	71.40		
			4	15.00		1.60	96.00		
			4	15.00		1.60	96.00		
			4	15.00		1.60	96.00		
			4	15.00		1.60	96.00		
			4	15.00		1.60	96.00		
			4	15.00		1.60	96.00		
			4	15.00		1.60	96.00		
			4	15.00		1.60	96.00		
			4	15.00		1.65	99.00		
			4	3.60		1.65	23.76		
	After Culvert								
			4	7.70		3.70	113.96		
			2	7.70		0.30	4.62		
	RCC Culvert								
			4	6.50		1.65	42.90		
	Slab		2	8.60		0.25	4.30		
	Parapet Wall		4	2.10		1.00	8.40		
						Total Executed Quantity	**1040.34**		
						Schedule B Quantity	**1168.00**		
						Quantity Upto 125%	**1040.34**	**336.00**	**349554.24**
6	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M20 for R.C.C works laid in 15 cms thick layers and well compacted by vibrating, curing, for foundations & sub-structure works with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)								
		Cum							
	Raft								
	Strom Water Drain								
	Upto Culvert(CH: 94.50-228.60)		1	10.50	2.10	0.30	6.62		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	15.00	2.10	0.30	9.45		
			1	3.60	2.10	0.30	2.27		
	After Culvert						0.00		
			1	7.70	2.60	0.30	6.01		
	RCC Culvert						0.00		
			1	6.50	2.10	0.30	4.10		
	Wall								
	Strom Water Drain								
	Upto Culvert(CH: 94.50-228.60)		2	10.50	0.20	1.70	7.14		
			2	15.00	0.20	1.60	9.60		
			2	15.00	0.20	1.60	9.60		
			2	15.00	0.20	1.60	9.60		
			2	15.00	0.20	1.60	9.60		
			2	15.00	0.20	1.60	9.60		
			2	15.00	0.20	1.60	9.60		

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			2	15.00	0.20	1.60	9.60		
			2	15.00	0.20	1.65	9.90		
			2	3.60	0.20	1.65	2.38		
	After Culvert								
			2	7.70	0.20	3.70	11.40		
	Hanch		2	7.70	0.30	0.30	1.39		
	RCC Culvert								
			2	6.50	0.30	1.65	6.44		
	Slab		1	6.50	2.10	0.25	3.41		
	Parapet Wall		2	2.10	0.23	1.00	0.97		
						Total Executed Quantity	**204.80**		
						Schedule B Quantity	**262.80**		
						Quantity Upto 125%	**204.80**	**4629.00**	**947998.37**
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 550								
		Tonne							
		1	204.80				24.58		
						Total Executed Quantity	**24.58**		
						Schedule B Quantity	**22.34**		
						Quantity Upto 125%	**24.58**	**61795.00**	**1518640.55**
	EIRL Item								
E-1	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification No. KBS 4.6.2								
		Sqm							
	Culvert Slab								
			1	6.50	1.64		10.66		
						Total Executed Quantity	**10.66**	**398.40**	**4246.93**
	Rate Analysis								
	(KPWD SR 2018-19, Page No.15, Item No-4.30)								
	Basic Rate	440.00							
	Area Weightage @6%	26.40							
	Total Amount	**466.40**							
	T.P -14.58%	-68.00							
	Total Amount	**398.40**							
								Construction Total Amount	**3810862.60**
								Miscellaneous and unforeseen charges etc.L.S	**1092.89**
								Grand Total	**3811955.49**

Assistant Engineer
Ward No.07
BBMP

Technical Sanction
Accorded For Rs.3811955.49
Head of A/C..1.3.2.9.6.
CER NO :...17..... Date 25.09.2019

TA

CE (YNK)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP